



## Gulf of Mexico Harmful Algal Bloom Bulletin

29 August 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: August 25, 2005

**Conditions:** A harmful algal bloom has been identified from northern Pinellas County to northern Lee County. The following impacts are possible today through Thursday: patchy low to moderate impacts in northern Pinellas, patchy moderate to high impacts from southern Pinellas to northern Sarasota Counties, and patchy none to very low impacts in Charlotte and Lee Counties. Due to the low oxygen water offshore, more dead fish may be found on the beach than normal. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide. Discolored water is possible.

**Analysis:** Hurricane Katrina obscures imagery analysis of bloom located offshore of Pasco County to northern Lee County. Alongshore resuspension event likely. Strong, consistent, upwelling favorable winds ending August 27 may have favored intensification and offshore transport. However, strong, cyclic hurricane related winds may cause onshore transport through Thursday.

Samples confirm bloom persists from Pinellas to Manatee counties. Samples may indicate decreased intensity in Charlotte and Lee counties (Aug 25; FWRI). Samples confirm offshore bloom in Pasco county and additional patchy bloom with medium to high concentrations offshore of Taylor county (Aug 25; FWRI).

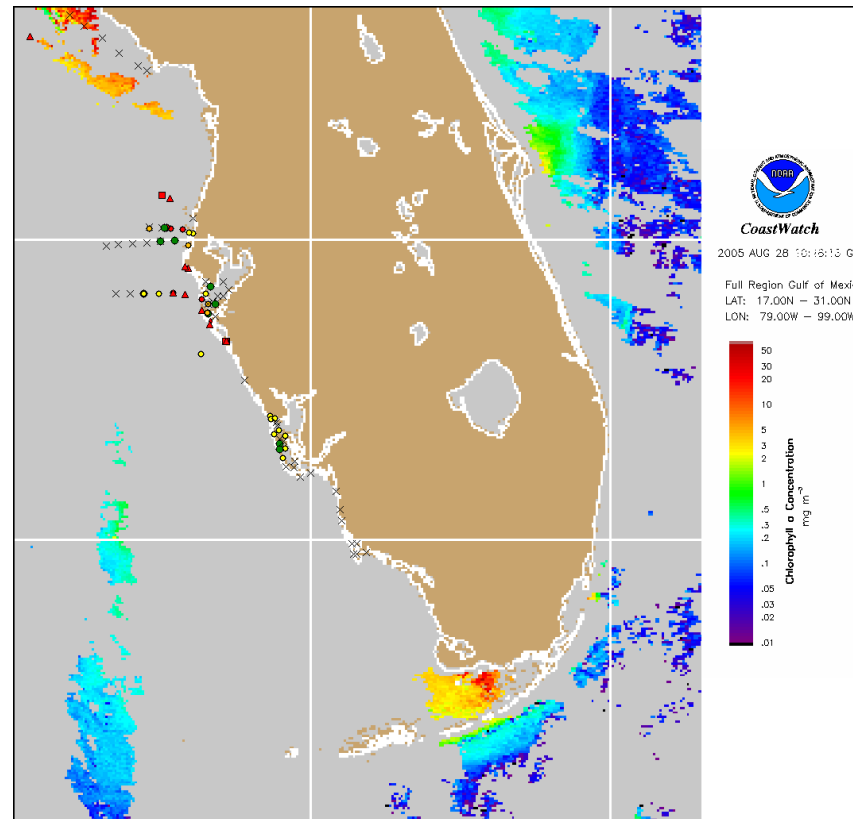
Reports of respiratory irritation and discolored water are likely.

Non-harmful blooms have been confirmed off of Naples (Aug 17) and Big Bend area (Aug 25; FWRI). Reports of discolored water are likely.

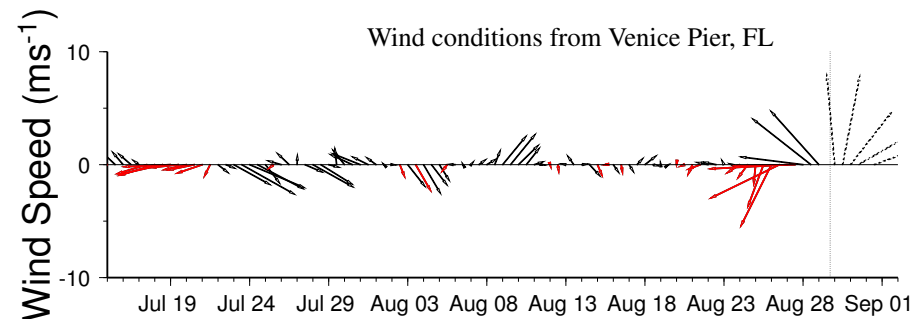
~Fenstermacher, Keller, Fisher

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1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

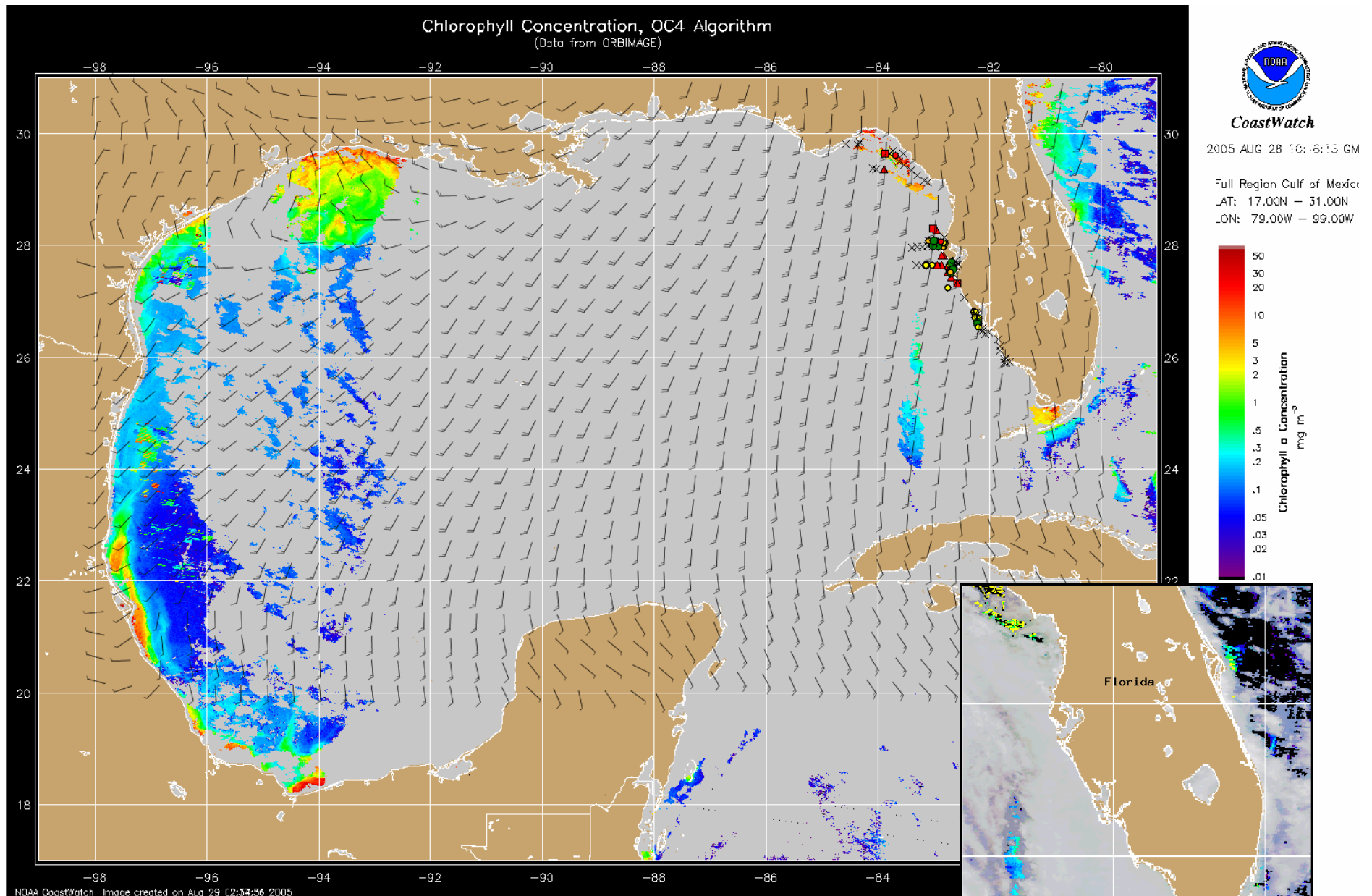


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from August 25, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Strong southerly winds becoming southwesterly from Hurricane Katrina through Thursday (5-10 m/s; 10- 20 knots).



Chlorophyll concentration from satellite and forecast winds for August 30, 2005 12Z with cell concentration sampling data from August 25, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

